



October 7, 2015

Bruce Suchomel
Groundwater Program, Mail Code 8P-W-UIC
U.S. Environmental Protection Agency
1595 Wynkoop St
Denver, CO 80202-1129

Dear Bruce,

Please consider this letter and the enclosures as an application for the Major Modification request for the east quarter of section 36 in T5S-R4W Uintah Special Meridian to Area Permit #UT20736-0000. The added area is on Tribal surface and Tribal mineral ownership. Petroglyph operates the injection system under Utah State's Enhanced Recovery Project spacing order, cause number 214-2. This spacing order includes the east quarter of section 36 in T5S-R4W in our Antelope Creek Project. Adding the Major Modification request area to the EPA Area Permit will make the Enhanced Recovery Project area concordant with the EPA Area Permit.

There is only one well in the Major Modification area, the Ute Tribal 36-08-E4. This well is in the permit process to be converted to an injection well, documentation was sent July 29th, 2015.

In the ¼ mile AOR there are currently three oil wells:

- Ute Tribal 36-02-E4 which is operated by Petroglyph Energy.
- Ute Tribal 16-25-54 which is operated by Linn Operating, Tribal Surface and Tribal Minerals.
- Federal 1-1D-64 which is operated by Linn Operating, Federal Surface (USFS) and Federal Minerals (USFS).



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Future oil wells to be drilled in the Major Modification area:

- Ute Tribal 36-01-E4*
- Ute Tribal 36-09-E4*
- Ute Tribal 36-16-E4*
- Ute Tribal 36-08A-E4
- Ute Tribal 36-08i-E4
- Ute Tribal 36-16J-E4

The first three italicized wells are in the permit process with the BLM and State of Utah (as oil wells), and are also likely candidates for future injection wells after they have been drilled and produced.

Future oil wells to be drilled in the ¼ mile AOR by Petroglyph:

- Ute Tribal 36-07-E4
- Ute Tribal 36-10-E4
- Ute Tribal 36-15-E4

The enclosed map, "T5S-R4W Section 36 Major Modification Request" shows the above mentioned wells, the wells current status, current roads, current pipelines, proposed roads, proposed pipelines, and proposed wells with their pads for section 36.

The latitude and longitude coordinates for the corners of the east quarter of Section 36, in NAD83 coordinate system are:

NE Corner: 40.010369 and 110.275006

NW Corner: 40.010353 and 110.279678. Bearing S88°57'48"W-1308.41' from the NE Corner Section 36

SW Corner: 39.995908 and 110.279694. Bearing S89°12'19"W-1309.97' from the SE Corner Section 36

SE Corner: 39.995911 and 110.275019

These coordinates are also displayed on the "T5S-R4W Section 36 Major Modification Request" map.



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Hyperlinked below are the Cement Bond Logs and Utah State's well files which have sundry information for the wells in the AOR:

CBLs

[Ute Tribal 36-02-E4](#)

[Ute Tribal 16-25-54](#)

[Federal 1-1D-64](#)

Well Files

[Ute Tribal 36-02-E4](#) API: 43013519310000

[Ute Tribal 16-25-54](#) API: 43013327790000

[Federal 1-1D-64](#) API: 43013505240000

These hyperlinks will take you the Division of Oil and Gas website, DOGM, where the CBLs and Well Files can either be viewed or downloaded.

An Archaeological Block Survey Report and an Environmental Assessment Report are also enclosed. Petroglyph believes these two reports will aid with the EPA's agency-to-agency consultations.

As stated in our first cover letter sent July 29th, 2015, Petroglyph does not have any record of application for the 1998 Major Modifications to the EPA Area Permit #UT20736-0000. Please give guidance on any documents or material which is needed for this Major Modification application. Feel free to contact me with any comments or concerns.

Sincerely,

Jessica Graham
Geologist
Petroglyph Energy
jgraham@pgei.com
208-685-7634

Enclosures

Coordinates are in NAD83

NW Corner Lat/Long:
40.010353
110.279578

NE Corner Lat/Long:
40.010369
110.275006

36-04-E4

36-03-E4

36-02-E4

16-25-54

36-01-E4

31-04

SI

36-08A-E4

36-05-E4

36-06-E4

36-07-E4

36-03-E4

31-05

36

36-08i-E4

36-12-E4

36-11-E4

36-10-E4

36-09-E4

31-12

SI

36-16J-E4

36-13-E4

36-14-E4

36-15-E4

36-16-E4

31-13

1-1D-64

SE Corner Lat/Long:
39.995911
110.275019

SW Corner Lat/Long:
39.995908
110.279594

Well Status

● OIL

SI

○ Future Well Location

1/4 Mile AOR Buffer

Major Modification Area

Current Area Permit

Existing Road

Proposed Road

Proposed Injection Pipeline



ANTELOPE CREEK

DUCHESE COUNTY, UTAH

T5S-R4W Section 36 Major Modification
Request

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90, Boise, ID 83707
UPR (USC) User Regional EPA 3508 EA Major Modification Map